

**DON'T SAY IT --- Write It!**

DATE: January 4, 1996

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**SUBJECT:**3718-F CLOSURE: FIELD INSPECTION SUMMARY AND COMPLETED CHECKLIST

Attached please find the following:

## 1) Completed Checklist.

As described in Chapters 6 and 7 of the "3718-F Alkali Metal Treatment and Storage Facility Closure Plan" (DOE/RL-91-35, Rev. 2), a visual inspection of the facility was performed to determine the nature and extent of existing contamination. As described in Section 7.4.1, the results from these field activities would be recorded. A completed checklist that serves as this record is attached (Section 7.4.1, Figure 7-1). This checklist, signed by two subject matter experts, verifies that the facility does not contain alkali metal carbonates above action levels. The inspection was performed on October 5, 1995.

## 2) Field Inspection Summary.

During the inspection, it was agreed that a brief writeup (summary description) of the various activities that were performed during the inspection would be prepared and attached to the completed checklist. A summary of the activities performed and observations is attached. A list of the participants (Inspection Team) is included in Table 1 of the summary.

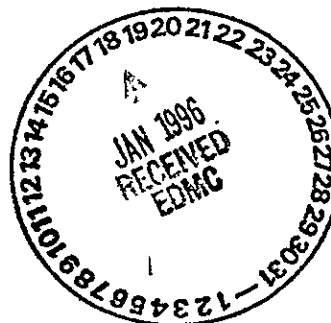


FIGURE 7-1

3718-F ALKALI METAL TREATMENT AND STORAGE  
INSPECTION CHECKLIST FOR CARBONATES  
ABOVE ACTION LEVELS

The following components were visually inspected for the presence of alkali metal carbonate deposits.

1. Storage Building and Concrete Floor
2. Burn Building, Concrete Floor, and Scrubber
3. Reaction Tanks
4. External Concrete Pad
5. Surrounding Soil

For each component, an X in the Accepted column means that the component was found to be free of alkali metal carbonate deposit and acceptable as is for clean closure. An X in the Not Accepted column means that the component was found not to be free of alkali metal carbonate deposits and require additional cleanup prior to clean closure:

<u>COMPONENT</u>	<u>ACCEPTED</u>	<u>NOT ACCEPTED</u>
Storage Building and Concrete Floor	<u>X</u>	<u>          </u>
Burn Building, Concrete Floor, and Scrubber	<u>X</u>	<u>          </u>
Reaction Tanks	<u>X</u>	<u>          </u>
External Concrete Pad	<u>X</u>	<u>          </u>

All cleanup activities associated with the Surrounding Soil will be deferred to the remediation of the 300-FF Operable Unit.

P.C.M. 11/1/95  
Name: Subject Matter Expert

[Signature] 11/10/95  
Signature Date

K.J. Young  
Name: Subject Matter Expert

[Signature] 11/10/95  
Signature Date

Note: Action levels for the alkali metal carbonates as derived from the equivalent concentration criteria (WAC 173-303-100), for characteristic category D (least toxic) dangerous waste is 10 percent weight of contaminated material. At this concentration, the presence of the waste can be discerned through a visual inspection.

**SUMMARY OF INSPECTION**  
**3718-F ALKALI METAL TREATMENT AND STORAGE FACILITY**  
**OCTOBER 5, 1995**

This summary provides a narrative description of the inspection conducted on Thursday, October 5, 1995 at the 3718-F Alkali Treatment and Storage Facility. This summary will be attached to the inspection checklist that was completed and signed on the day of the inspection. A discussion of the activities and description of what was observed for each component follows. A list of participants is provided in Table 1.

**STORAGE SHED AND CONCRETE PAD**

There was no evidence of any alkali metal carbonate found on the floor or walls of the storage shed. The only items that remain in this building are a few tools, metal shelves, and a couple of work surfaces. It was observed that a couple of bags of fire retardant or chemicals remain in building and these should be removed. There is evidence of animal activity (rodents and insects) and actions may be taken to clean and perhaps disinfect the facility prior to any future use. These actions are not required for closure but may be performed. It was agreed that the facility was ready to be closed.

**BURN BUILDING, CONCRETE PAD, AND SCRUBBER**

The burn building, and external ports of the exhaust stack were opened for the inspection. No evidence or sign of alkali metal carbonate was found inside the burn building. There was no burn pan found inside the burn building. The inside walls were found to be discolored from the intense heat that had been created during the treatment process. An opening at the base of the walls and openings in the walls allowed air to enter the building during the treatment process and sustained the burn. The condensation pan and drainage system were also examined.

No sign of alkali metal carbonate was observed on the baffles in the scrubber. The stack did appear to have some soot on the inner surface but no 'white' colored carbonate was observed. The concrete floor showed signs of spalling from the intense heat of the treatment. However, the concrete pad remained in reasonably good condition.

It was agreed that no additional action would be required to cleanup this component.

**REACTION TANKS**

The stainless steel reaction tanks were examined for the second time. No evidence of the alcohols used to clean the various pieces of equipment was observed. As stated in the closure work plan, this came as no surprise since the facility was last used in 1987 and all of the cleaning agents (alcohols) that were used to bath the equipment were extremely volatile and probably disappeared through vaporization within a few hours after their use. All reaction tanks were found to be clean and in good condition. These tanks will be removed from the pad and made available for other usage prior to closure.

## EXTERNAL CONCRETE

The external concrete pad was not used for purposes of treatment. No signs of spillage were observed and the pad was considered clean.

## SURROUNDING SOIL

As discussed in the closure work plan. It was agreed during the Data Quality Objective workshop that soil cleanup would be deferred until cleanup of the 300-FF-2 Operable Unit. Nothing was observed during the inspection that changed this agreement.

TABLE 1  
3718-F INSPECTION TEAM

NAME	AFFILIATION	RESPONSIBILITY
Douglas H. Chapin	DOE-RL	Unit Manager
Greta Davis	ECOLOGY	Unit Manager
Stephanie K. Johansen	Dames & Moore	Contractor Support
Ellen H. Mattlin	DOE-RL	Unit Manager
Phillip C. Miller	WHC	Unit Manager
Clint Stuart	Ecology	Unit Manager
John C. Sonnichsen, Jr.	WHC	RCRA Closure
Kenneth J. Young	WHC	Subject Matter Expert